Attachment No. 4

Loading Emissions

MERIT ENERGY COMPAN Y RROBERT DRISCOLL "A" BATTERY DUVAL COUNTY, BENAVIDES, TEXAS PERMIT BY RULE FILING

Storage Tank and Loading Emissions

Storage Tank VOC Emissions from E&P Tanks Program	sions from E&P	Tanks Program	Pounds per year	Tons per Year	Lbs per Hour	
			2568.99 2568.99 2568.99 2196.51 2133.47	1.2845 1.2845 1.2845 1.0983 1.0667	0.2933 0.2933 0.2933 0.2507 0.2435	
Loading Emissions			Total Emissions	6.0185	1.3741	
Tank	Sales Volume (Q) mbbls/yr	Saturation Factor (S)	True Vapor Pressure (P)psia	Vapor Molecular Weight (M)	Oil Temperature (T) Degrees R	Loading Losses (lbs/1,000 gal)
	72.05	9.0	S	90	909	3.67913385

VOC Loading

Emissions (tons/yr) 5.566713484

Loading Losses (lbs/1,000 gal) = 12.46*S*P*M (AP42 Section 5.2, Equation 1)

Loading Emissions (tons/year) = Loading Losses (lbs/1,000 gal) * Q * 42 gal/bb/

2,000 lb/ton

Degress Rankine = Degress F + 460